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NEW CARBURETOR ATTACHMENT FOR REDUCING MOTOR-FUEL CONSUMPTION IN HUNGARY

(Numbers in parentheses refer to appended sources.)

A motor-fuel saving device which conserves up to 40 percent of gasoline in some instances has been invented by Captain [redacted] Suranyi in cooperation with the Automobile Research Institute. The relatively small device functions automatically and can be attached to any type carburetor in a few hours. A red light on the dashboard flashes when the device is working. It saves fuel by shutting off the flow of gasoline when the motor is idle, such as on downgrades, during gear shifting, or when the brakes are applied, and by regulating the fuel mixture according to the engine load. Curtailing fuel when the motor idles is advantageous not only because it saves gasoline, but because it minimizes engine wear, increases brake efficiency, and reduces oil dilution resulting from improper combustion.(1)

The Suranyi device changes the carburetor's working principles completely: When the accelerator is released, an electric appliance attached to the throttle line makes contact with the coils of the device, causing a needle valve to shut down the flow of gasoline to the carburetor jet.(2) Consequently, the fuel mixture is made leaner by reduction of quantity instead of by the closing of the choke valve; there is less work for the pistons; the cylinders fire better, and greater compression is created. Carburetion is also improved because the choke valve remains open, and the rate of air intake is not diminished. Furthermore, the device regulates ignition timing: advancing ignition when the mixture is lean, and retarding it for a rich mixture.

Fuel consumption is kept at a minimum whether the device is set for a fully or only partially loaded engine. Shifting becomes smoother because the device enriches before accelerating, i.e., the clutch is depressed first, which results in an enriched gas mixture, and only then does the choke valve turn, transmitting the fuel through an already adequate opening.(1)

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Various types of trucks and busses have been testing the Suranyi device for nearly a year. Drivers report a 15-20 percent drop in gasoline consumption, noting even greater savings on difficult or hilly routes. Their reports also substantiate the inventor's claim to smoother shifting.

The Suranyi device is now being serially produced. To date, 50 units are ready for installation.(2)

SOURCES

1. Budapest, Elet es Tudomany, 30 Apr 52
2. Budapest, Auto, 1 Mar 52

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